

VIDEO OUTPUT PENTODE PL802

Video output pentode for colour television receivers

HEATER

Suitable for series operation, a.c. or d.c.

I_h	300	mA
V_h	16	v

CAPACITANCES

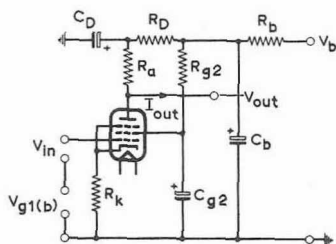
c_{in}	20	pF
c_{out}	4.0	pF
c_{a-g1}	0.075	pF
$c_{a-g1 \text{ max.}}$	0.1	pF ←

CHARACTERISTICS

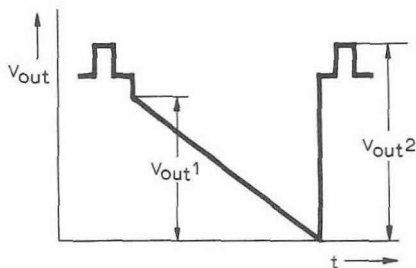
V_a	170	V
V_{g3}	0	V
V_{g2}	170	V
V_{g1}	-1.3	V ←
I_a	30	mA
I_{g2}	6.5	mA
g_m	40	mA/V
μ_{g1-g2}	70	

OPERATING CONDITIONS (negative modulation)

V_b	250V
R_b	330 Ω
R_D	560 Ω
C_D	16 μ F
R_a	2.7k Ω
R_{g2}	5.6k Ω
C_{g2}	2.0 μ F
R_k	39 Ω
(no bypass capacitor)	
$V_{g1(b)}$	+4.0V



$V_{out(1)}$	100V
$V_{out(2)}$ p-p	≥ 140 V
Video linearity	≥ 0.8
V_{in} p-p	approx. 5.0V
I_{out} max.	7.0mA

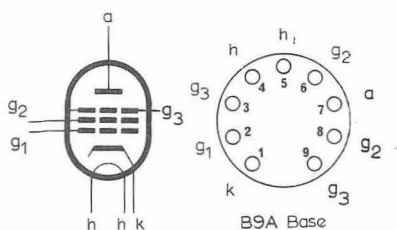


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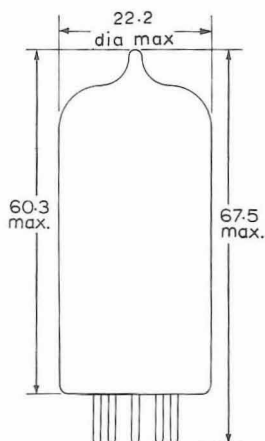
VIDEO OUTPUT PENTODE PL802

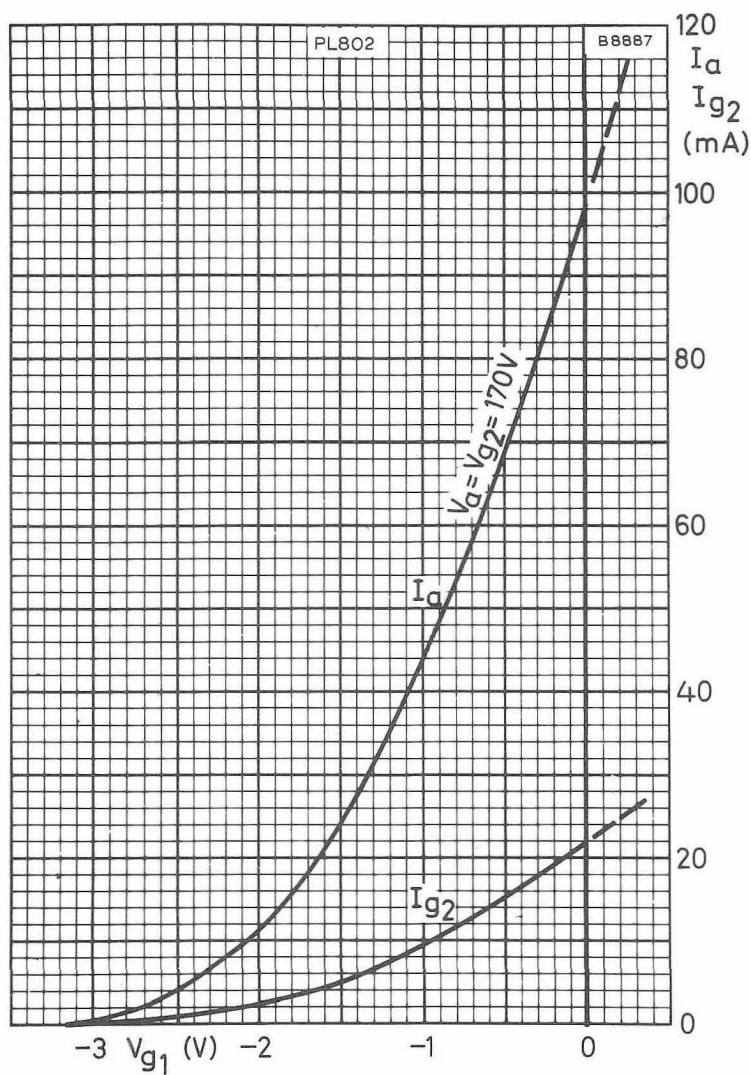
RATINGS (DESIGN CENTRE SYSTEM)

$V_{a(b)}$ max. (supply)	400	V
V_a max. (long term average)	300	V
V_a max. ($I_k = 0$)	550	V
p_a max.	6.0	W
V_{g2} max.	300	V
V_{g2} max. ($I_k = 0$)	550	V
p_{g2} max.	2.5	W
p_{g2} max. (intermittent rating, short duration)	3.0	W
I_k max.	100	mA
R_{g1-k} max.	100	k Ω
R_{g1-k} max. ($R_k \geq 39\Omega$)	500	k Ω
V_{h-k} max.	200	V



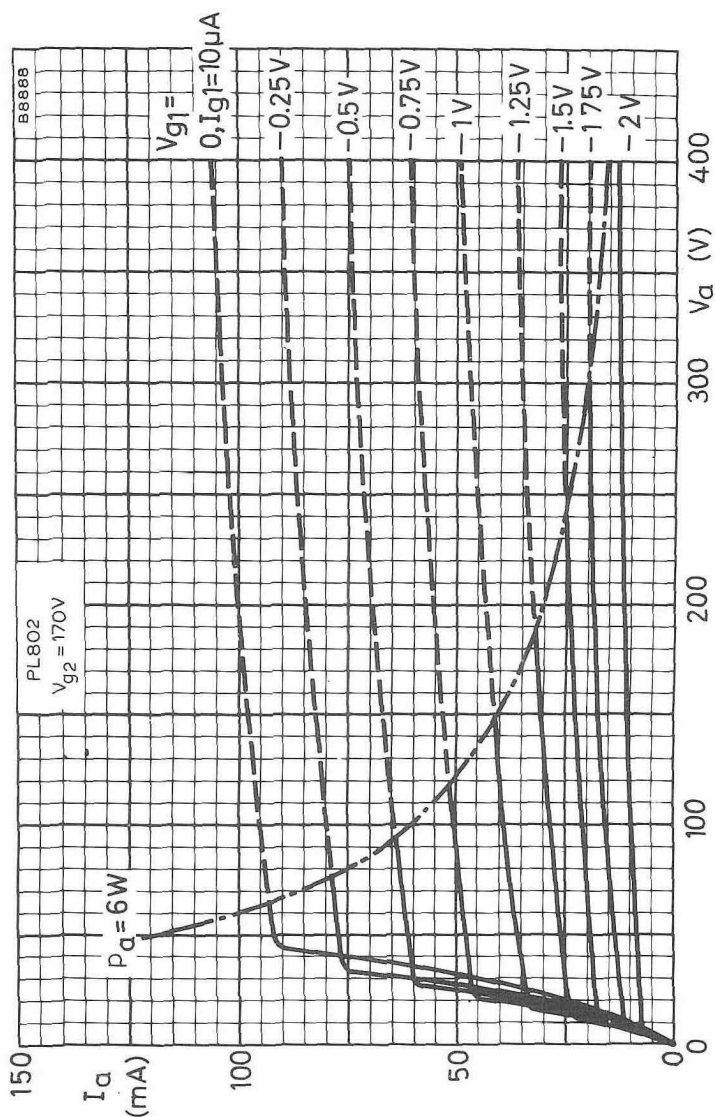
All dimensions in mm



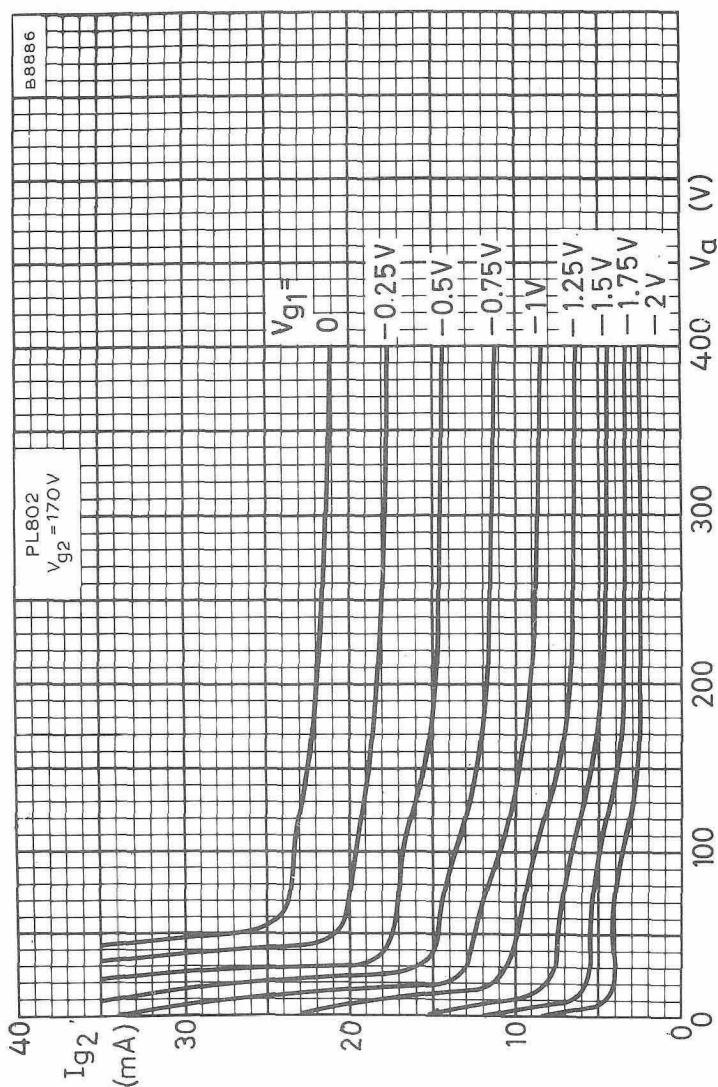


ANODE AND SCREEN GRID CURRENTS PLOTTED AGAINST
CONTROL GRID VOLTAGE

VIDEO OUTPUT PENTODE PL802



ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE
WITH CONTROL GRID VOLTAGE AS PARAMETER



SCREEN GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE
WITH CONTROL GRID VOLTAGE AS PARAMETER